

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE, United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Viginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,814	02/28/2002	Tatjana Dragic	61010-AB-1/JPW/MAF/DJK 1614	
7590 04/22/2004			EXAMINER	
John P. White			TELLER, ROY R	
Cooper & Dunham LLP 1185 Avenue of the Americas New York, NY 10036			ART UNIT	PAPER NUMBER
			1654	
		DATE MAILED: 04/22/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)			
	10/086,814	DRAGIC ET AL.			
Office Action Summary	Examiner	Art Unit			
	Roy Teller	1654			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 05 Fe	ebruary 2004.				
·	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) 1-66 is/are pending in the application 4a) Of the above claim(s) 32-66 is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-31 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the I drawing(s) be held in abeyance. Set tion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	es have been received. Es have been received in Application rity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)	,	J			
1) Notice of References Cited (PTO-892)	4) Interview Summary				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>0404</u>. 	Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)			

DETAILED ACTION

This office action is in response to the restriction/election, received 2/5/04, in which applicant elected group I, claims 1-31, with traverse. The Applicant contends that groups I-III, claims 1-63 are not independent inventions, that there is a disclosed relationship between the subject matter claimed and that there would not be a serious burden on the Examiner if restriction were not required. This is not found persuasive because the inventions of groups I-III are distinct, as evidenced by their different functions as pointed out in the restriction requirement, further, the Examiner contends that the search for each of the inventions of groups I-III is not co-extensive particularly with regard to the literature search. A reference which would anticipate the invention of one group would not necessarily anticipate or even make obvious the other group. Finally, the consideration for patentability is different in each case. Thus, it would be an undue burden to examine the three inventions in one application.

The requirement is still deemed proper and is therefore made FINAL.

Claims 32-66 are withdrawn as being drawn to non-elected inventions.

Claims 1-31 are pending.

Information Disclosure Statement

The information disclosure statement filed 1/27/03 is acknowledged. A signed copy is attached hereto.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-31 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for peptides S-10/14 and S-3/10/14 does not reasonably provide enablement for the compound comprising the structure: alpha-Y-D-I-N-Y-Y-T-S-beta wherein alpha represents from 0 to 9 amino acids; wherein beta represents from 0 to 14 amino acids. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims.

With respect to the elected invention, Applicants have reasonably demonstrated that peptides S-10/14 and S-3/10/14 inhibit binding of gp 120 jr-fl/ CD4-IgG2 complex to CCR5+ cells in a dose dependent manner and that peptides S-10/14 and S-3/10/14 inhibited the entry of the R5 isolate HIV-1 jr-fl by approximately 50% in HeLa-CD4+CCR5+ and U87MG-CD4+CCR5+ as evidenced by figure 1a and figure 5 of the instant specification. However, the claims broadly encompass a group of amino acid configurations which are clearly beyond the scope of the instant disclosure.

Accordingly, with respect to the elected invention, others skilled in the art would be unable to practice the invention as claimed without undue experimentation and with a reasonable expectation of success, other than using peptides S-10/14 and S-3/10/14 as evidenced by figure 1a and figure 5 of the instant application.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

Claim Rejections - 35 USC § 102

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this

or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-31 are rejected under 35 U.S.C. 102(a) as being anticipated by Cormier et al.

(PNAS, 2000, vol. 97, No. 11, pp-5762-5767).

The instant invention is drawn to a compound comprising the structure: alpha-Y-D-I-N-

Y-Y-T-S-beta wherein alpha represents from 0 to 9 amino acids; wherein beta represents from 0

to 14 amino acids, wherein an amount of the compound effectively inhibits binding of HIV-1 to

a CCR5 receptor on the surface of a CD4+ cell.

Cormier teaches inhibition of gp120/CD4 binding to CCR5 by Nt peptides, wherein

peptides S-3/10/14 and S-10/14 inhibited complex binding to cells in a dose dependent manner,

see page 5763 and figure 1a, page 5764. Cormier discloses inhibition of HIV-1 entry by CCR5

Nt peptides, in which only peptides S-10/14 and S-3/10/14 inhibited the entry of the R5 isolate

HIV-1 jr-fl by approximately 50% in HeLa-CD4+CCR5+ and U87MG-CD4+CCR5+, see page

5764 and figure 5, page 5766.

Accordingly, the cited reference is deemed to anticipate the above claims.

Application/Control Number: 10/086,814 Page 5

Art Unit: 1654

Conclusion

All claims are rejected.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Roy Teller whose telephone number is (571) 272-0971. The

examiner can normally be reached on Monday-Friday from 5:30 am to 2:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Brenda Brumback, can be reached on (571) 272-0961. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RT 1654

4/16/04

RT

CHRISTOPHER R. TATE
PRIMARY EXAMINER